

YSZd = dense YSZ

YSZp = porous YSZ

□, $P_{\max} = 5.1 \text{ mW/cm}^2$

○, $P_{\max} = 19.4 \text{ mW/cm}^2$

△, $P_{\max} = 34.6 \text{ mW/cm}^2$

▼, $P_{\max} = 4.0 \text{ mW/cm}^2$

●, $P_{\max} = 46.6 \text{ mW/cm}^2$

FIG.1

FIG.2A

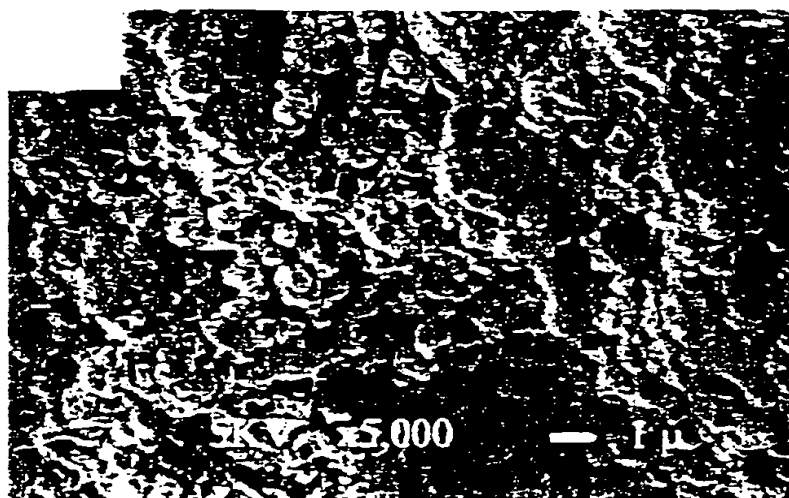


FIG.2B

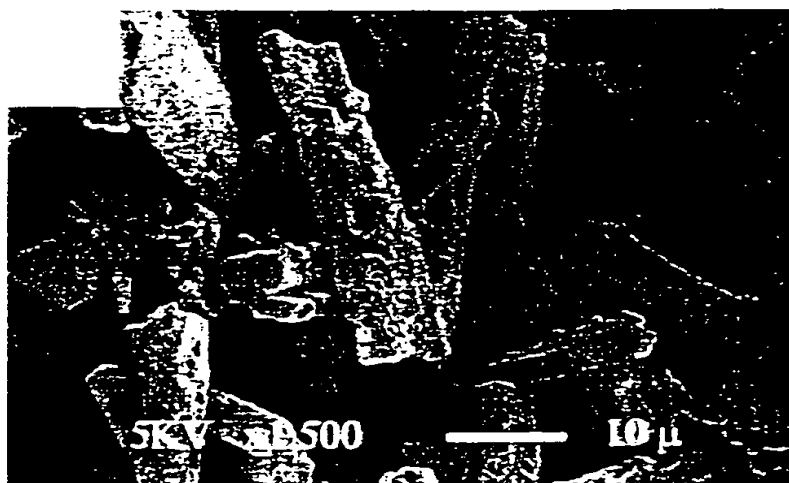
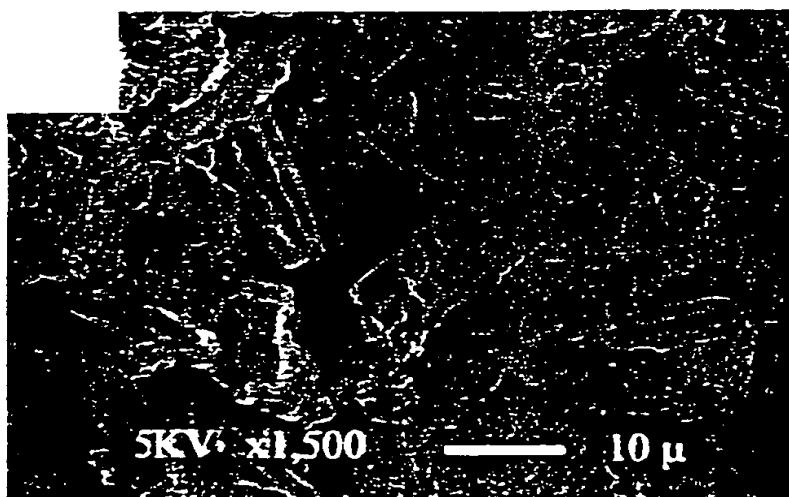


FIG.2C



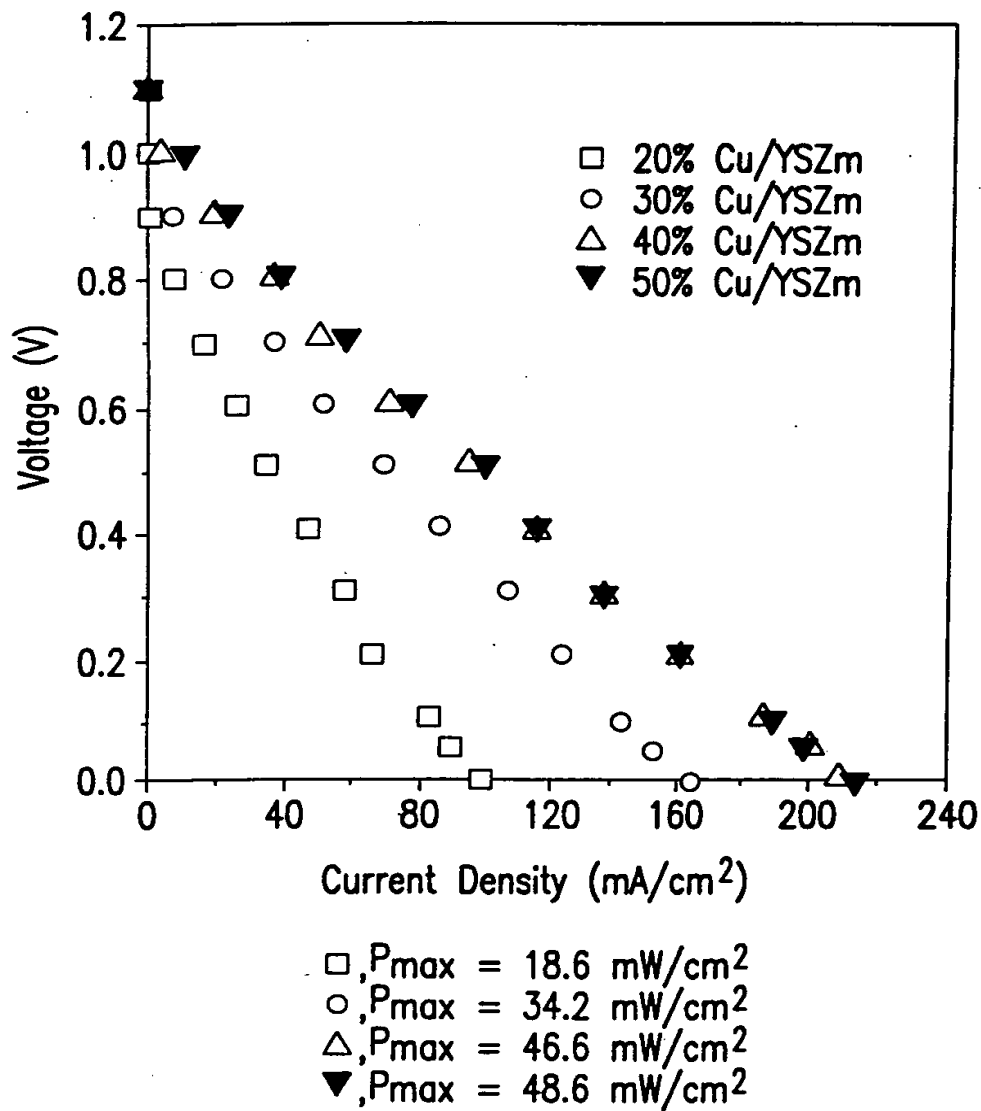
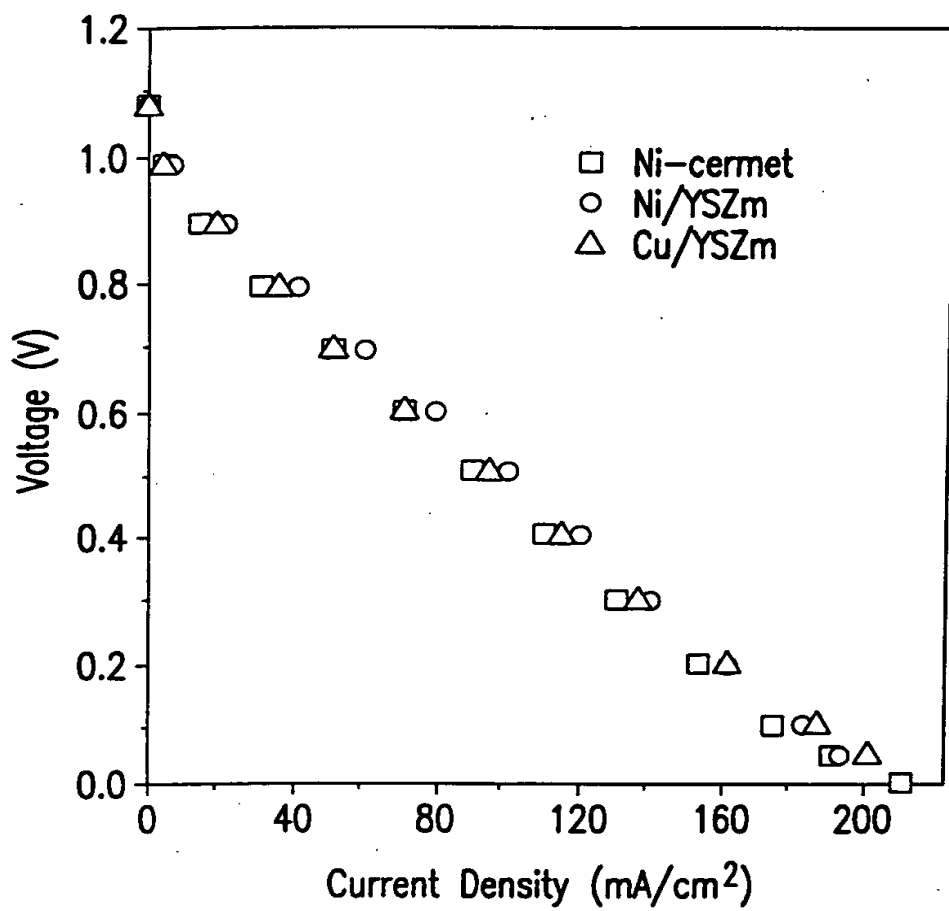
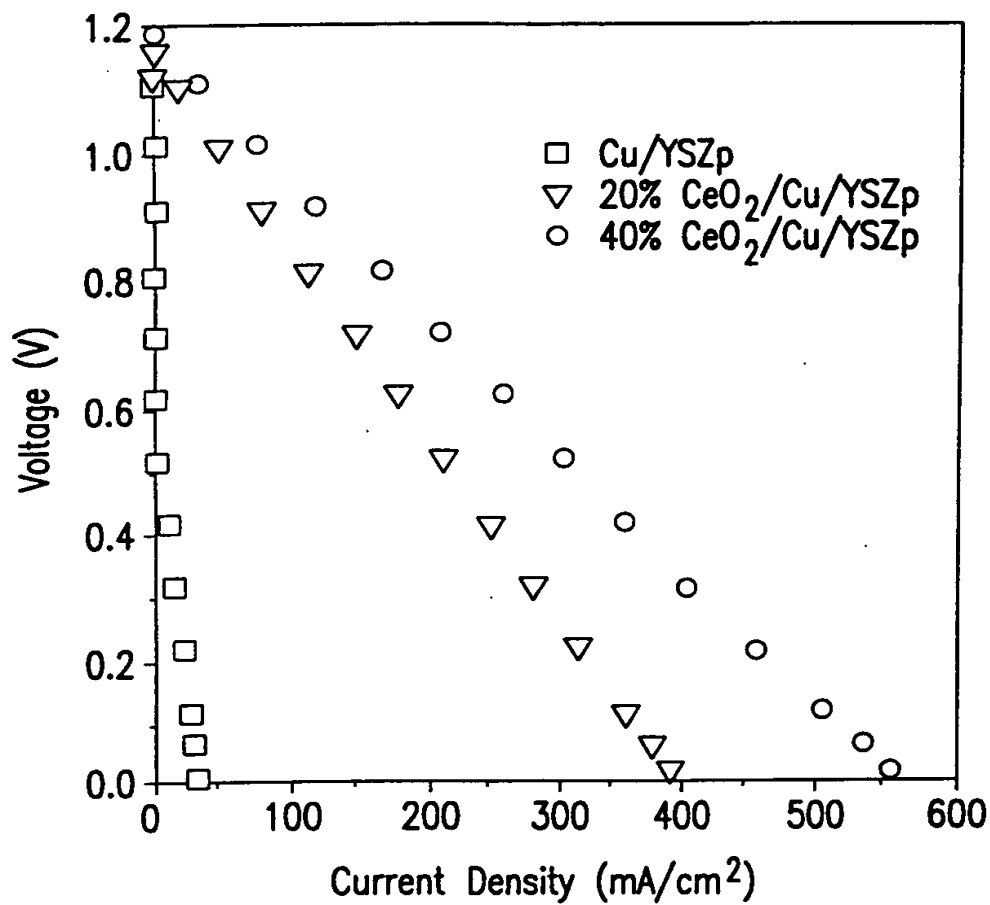


FIG.3



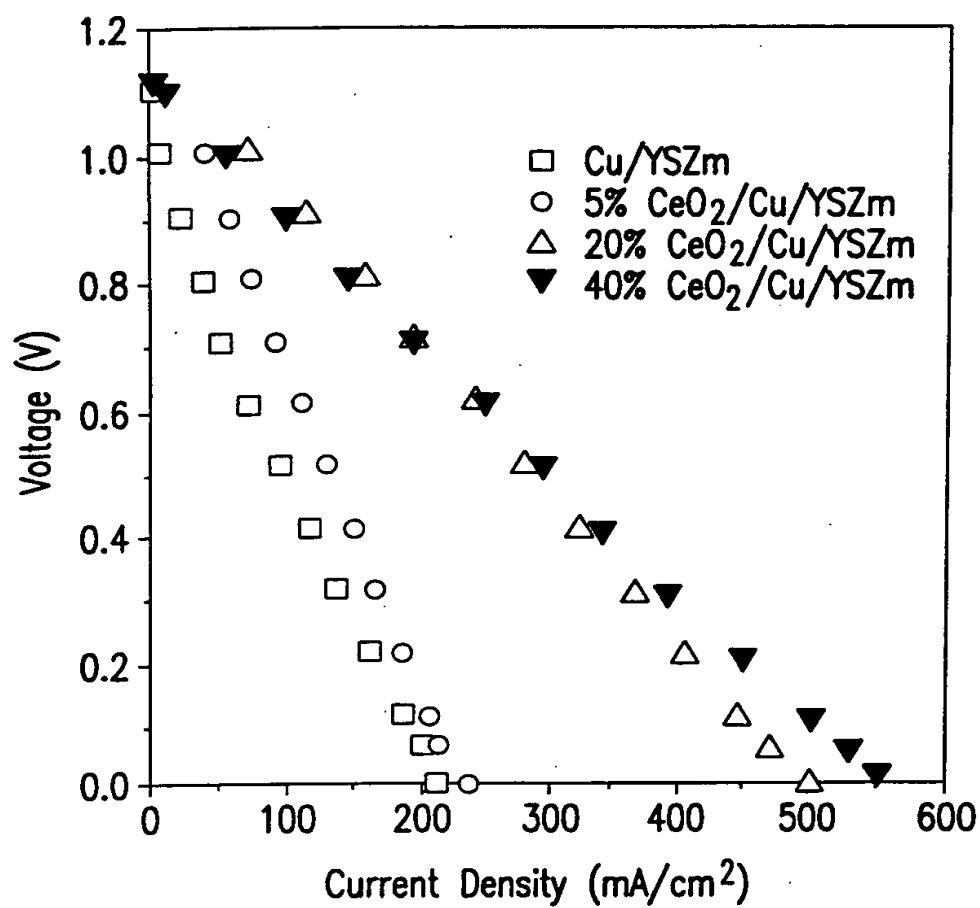
□, $P_{\max} = 45.1 \text{ mW/cm}^2$
○, $P_{\max} = 49.0 \text{ mW/cm}^2$
△, $P_{\max} = 46.6 \text{ mW/cm}^2$

FIG.4



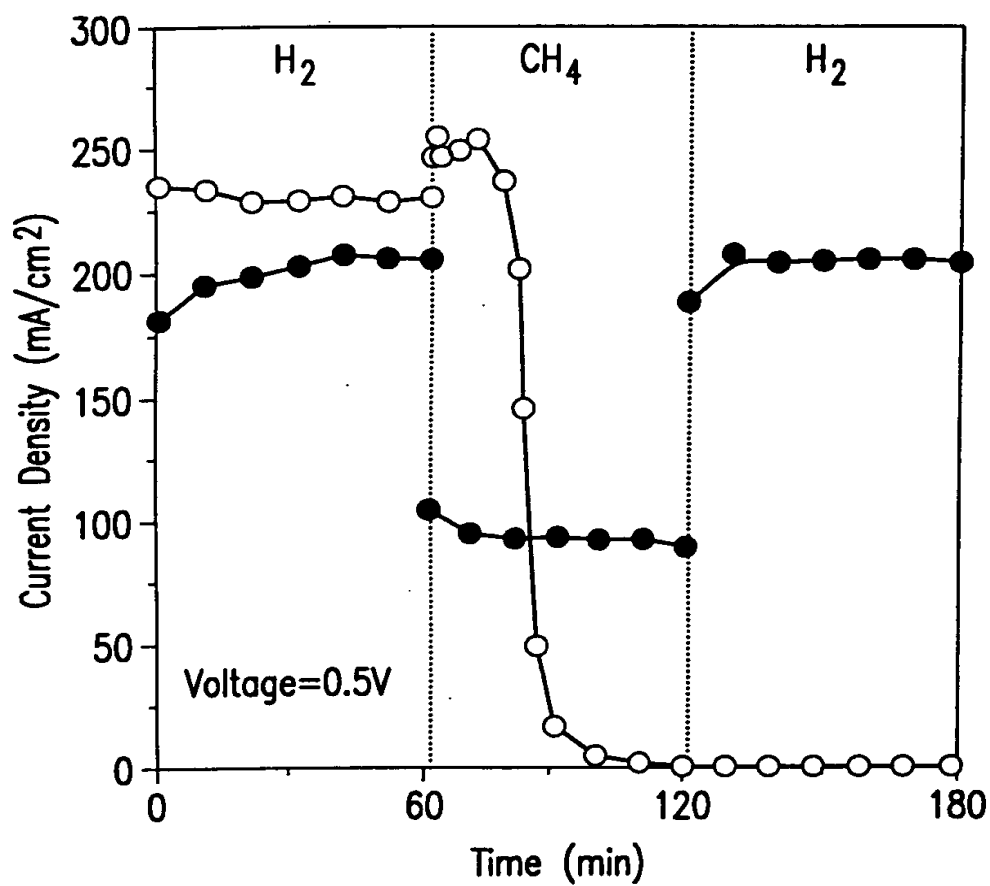
□, P_{max} = 5.1 mW/cm²
○, P_{max} = 104.9 mW/cm²
△, P_{max} = 151.2 mW/cm²

FIG.5



□, $P_{\max} = 46.6 \text{ mW/cm}^2$
 ○, $P_{\max} = 64.3 \text{ mW/cm}^2$
 △, $P_{\max} = 142.1 \text{ mW/cm}^2$
 ▼, $P_{\max} = 146.4 \text{ mW/cm}^2$

FIG.6



● - Cu/CeO₂/YSZ
○ - Ni/CeO₂/YSZ

Temperature = 800°F

FIG.7

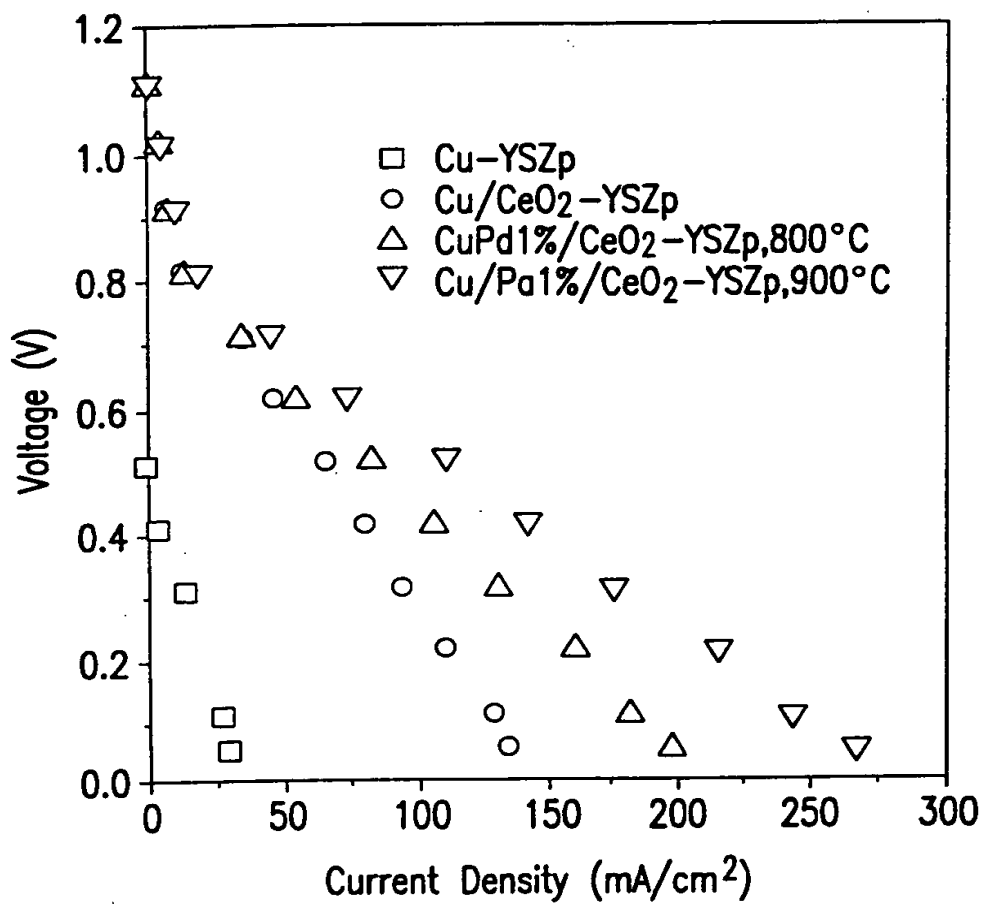


FIG.8

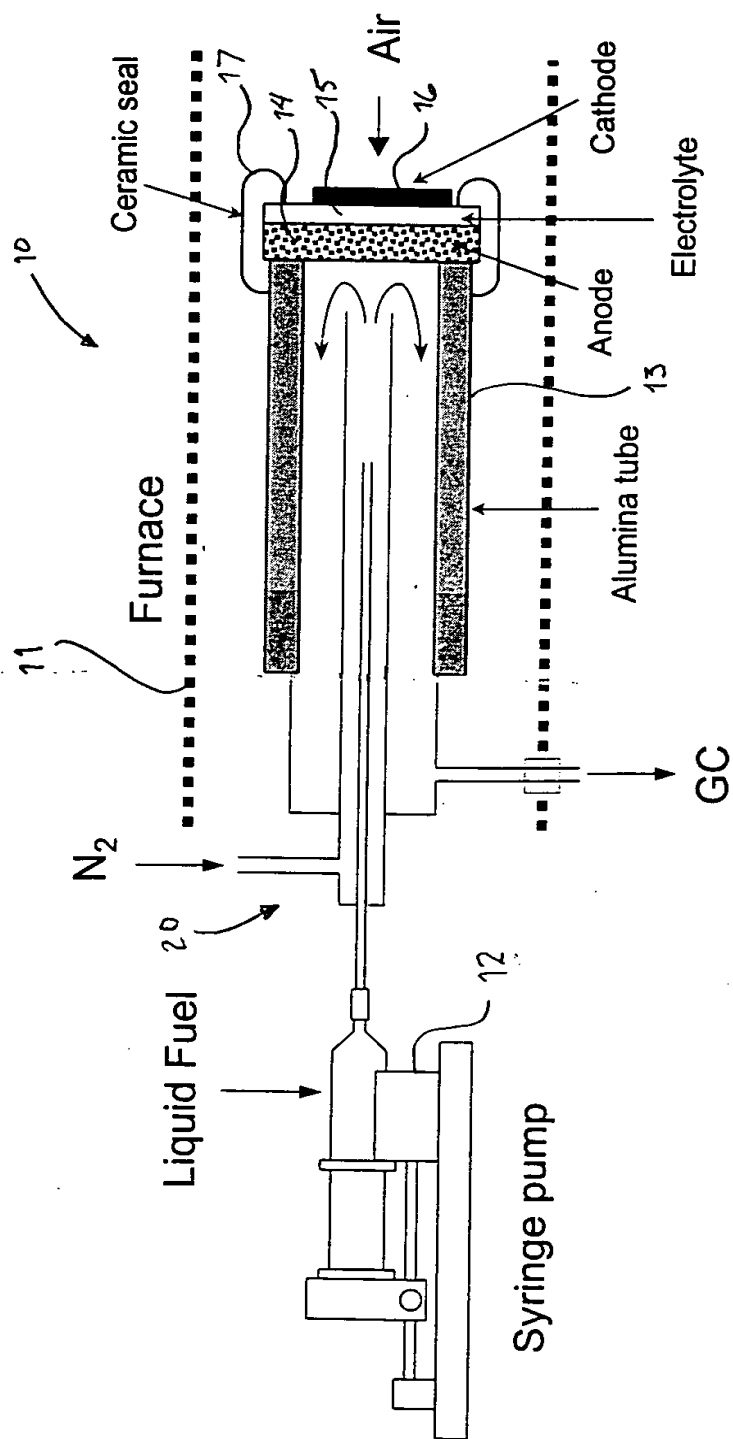
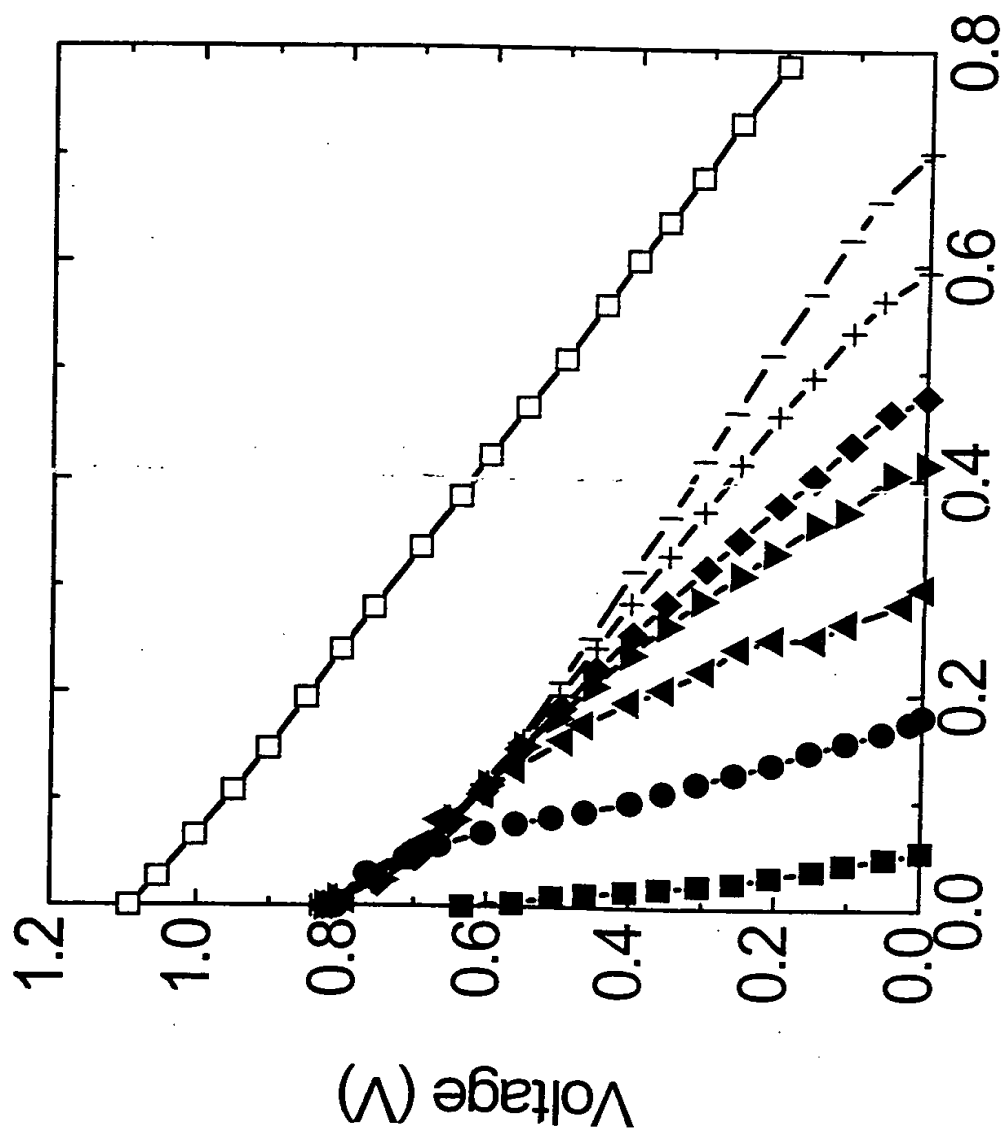


Fig. 9



Current Density (A/cm^2)

Fig. 10

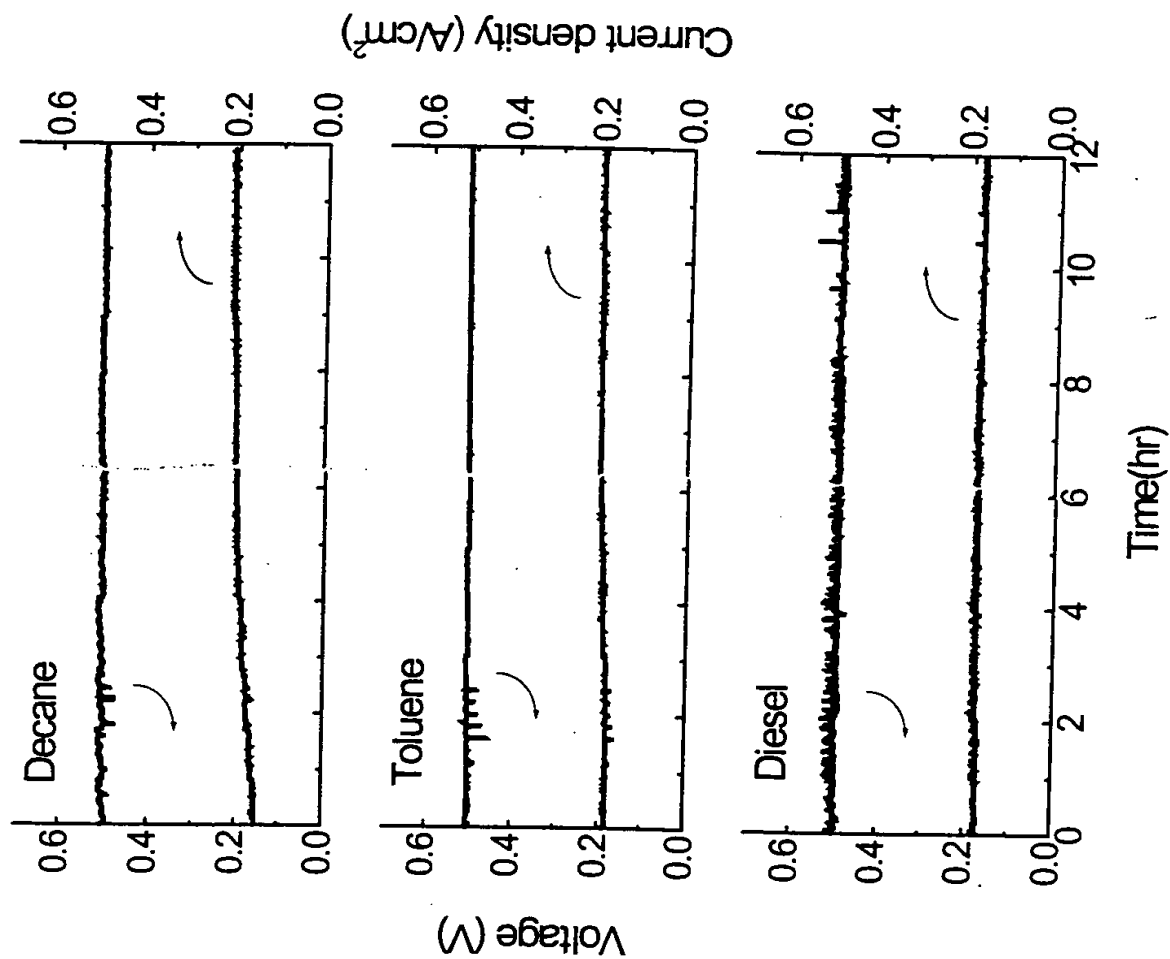
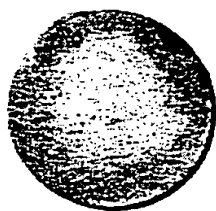
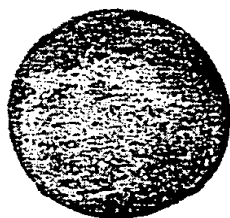


Fig. 11

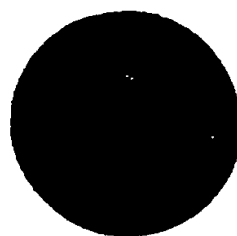
(a)



(b)



(c)



(d)



Fig. 12